IN THE CLAIMS

Please amend the status of the claims as indicated below:

Claims 1-71 (canceled)

72. (new) A purified polypeptide that binds to neoplastic cells, said polypeptide comprising an amino acid sequence substantially identical to a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof.

73. (new) The purified polypeptide according to Claim 72, wherein said polypeptide specifically binds to BXPC-3 (ATCC Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F (DSMZ Accession No. ACC 21), COLO-699 (DSMZ Accession No. ACC 196), and LOU-NH91 (DSMZ Accession No. ACC 393) cells and not to a non-neoplastic cell.

74. (new) The purified polypeptide according to Claim 72, wherein said polypeptide specifically binds to BXPC-3 (ATCC Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F (DSMZ Accession No. ACC 21), COLO-699 (DSMZ Accession No. ACC 196) and LOU-NH91 (DSMZ Accession No. ACC 393) cells and not to non-neoplastic cells, and wherein said neoplastic cell is an adenocarcinoma of the lung, a squamous cell lung carcinoma, an intestinal-type gastric carcinoma, a diffuse-type gastric carcinoma, an adenocarcinoma of the colon, an adenocarcinoma of the prostate, a squmous cell carcinoma of the esophagus, an adenocarcinoma of the esophagus, an adenocarcinoma of the esophagus, a lobular

carcinoma of the breast, a ductal carcinoma of the breast, an adenocarcinoma of the pancreas, an adenocarcinoma of the ovary and an adenocarcinoma of the uterus.

- 75. (new) The purified polypeptide according to Claim 72, wherein said polypeptide specifically binds to an adenocarcinoma of the lung, a squamous cell lung carcinoma, an intestinal-type gastric carcinoma, a diffuse-type gastric carcinoma, an adenocarcinoma of the colon, an adenocarcinoma of the prostate, a squmous cell carcinoma of the esophagus, an adenocarcinoma of the esophagus, an adenocarcinoma of the breast, a ductal carcinoma of the breast, an adenocarcinoma of the pancreas, an adenocarcinoma of the ovary and an adenocarcinoma of the uterus, and not to a non-neoplastic cell.
- 76. (new) The purified polypeptide according to Claim 72, wherein said polypeptide comprises an antibody or a functional fragment of said antibody.
- 77. (new) The purified polypeptide according to Claim 76, wherein said polypeptide is said functional fragment of said antibody selected from the group consisting of V_L , V_H , F_V , F_C , F_D , F_D , F_D , and F_D .
- 78. (new) The purified polypeptide according to Claim 77, wherein said polypeptide includes an amino acid sequence of a variable region of a light chain (V_L) substantially identical to SEQ ID NO:1, or an amino acid sequence of a variable region of a heavy chain (V_H) substantially identical to SEQ ID NO:3, or both said amino acid sequences.

- 79. (new) The purified polypeptide according to Claim 77, wherein said polypeptide includes a nucleic acid sequence of a variable region of a light chain (V_L) substantially identical to SEQ ID NO:2, or a nucleic acid sequence of a variable region of a heavy chain (V_H) substantially identical to SEQ ID NO:4, or both said nucleic acid sequences.
- 80. (new) The purified polypeptide according to Claim 77, wherein said functional fragment comprises a fragment of the sequence of SEQ ID NO:1 and SEQ ID NO:3.
- 81. (new) The purified polypeptide according to Claim 77, wherein said functional fragment comprises a fragment that is substantially identical to the sequence of SEQ ID NO:1 or SEQ ID NO:3.
- 82. (new) The purified polypeptide according to Claim 72, wherein said polypeptide comprises a sequence that is substantially identical to the amino acid sequence of SEQ ID NO:1.
- 83. (new) The purified polypeptide according to Claim 72, wherein said polypeptide comprises a sequence that is substantially identical to the amino acid sequence of SEQ ID NO:3.
- 84. (new) The purified polypeptide according to Claim 72, wherein said polypeptide comprises nucleic acid sequences that are substantially identical to nucleotides 67-99 (CDR1), 145-165 (CDR2) and 262-288 (CDR3) of SEQ ID NO:2.

- 85. (new) The purified polypeptide according to Claim 72, wherein said polypeptide comprises nucleic acid sequences that are substantially identical to nucleotides 91-105 (CDR1), 148-198 (CDR2) and 295-330 (CDR3) of SEQ ID NO:4.
- 86. (new) The purified polypeptide according to Claim 72, wherein said polypeptide includes at least one complementary-determining regions (CDR) or functional fragments thereof comprising an amino acid sequence substantially identical to an amino acid sequence selected from the group consisting of [Ser-Gly-Asp-Lys-Leu-Gly-Asp-Lys-Tyr-Ala-Cys (CDR1) or Gln-Asp-Ser-Lys-Arg-Pro-Ser (CDR2) or Gln-Ala-Trp-Asp-Ser-Ser-Ile-Val-Val (CDR3) of SEQ ID NO:1], [Ser-Tyr-Ala-Met-His (CDR1) or Val-Ile-Ser-Tyr-Asp-Gly-Ser-Asn-Lys-Tyr-Tyr-Ala-Asp-Ser-Val-Lys-Gly (CDR2) or Asp-Arg-Leu-Ala-Val-Ala-Gly-Lys-Thr-Phe-Asp-Tyr (CDR3) SEQ ID NO:3] and a combination thereof.
- 87. (new) The purified polypeptide according to Claim 72, wherein said polypeptide is a monoclonal antibody.
- 88. (new) A purified polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof.
- 89. (new) A cell expressing a polypeptide selected from the group consisting of: said polypeptide comprising an amino acid sequence substantially identical to a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof, and wherein said polypeptide specifically binds to BXPC-3 (ATCC

Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F (DSMZ Accession No. ACC 21), COLO-699 (DSMZ Accession No. ACC 196), and LOU-NH91 (DSMZ Accession No. ACC 393) cells and not to a non-neoplastic cell;

said polypeptide comprising at least one complementary-determining regions (CDR) or functional fragments thereof comprising an amino acid sequence substantially identical to an amino acid sequence selected from the group consisting of [Ser-Gły-Asp-Lys-Leu-Gły-Asp-Lys-Tyr-Ala-Cys (CDR1) or Głn-Asp-Ser-Lys-Arg-Pro-Ser (CDR2) or Głn-Ala-Trp-Asp-Ser-Ser-Ile-Val-Val (CDR3) of SEQ ID NO:1], [Ser-Tyr-Ala-Met-His (CDR1) or Val-Ile-Ser-Tyr-Asp-Gły-Ser-Asn-Lys-Tyr-Tyr-Ala-Asp-Ser-Val-Lys-Gły (CDR2) or Asp-Arg-Leu-Ala-Val-Ala-Gły-Lys-Thr-Phe-Asp-Tyr (CDR3) SEQ ID NO:3] and a combination thereof; and,

said polypeptide comprising an amino acid sequence substantially identical to a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof, wherein said polypeptide specifically binds to an adenocarcinoma of the lung, a squamous cell lung carcinoma, an intestinal-type gastric carcinoma, a diffuse-type gastric carcinoma, an adenocarcinoma of the colon, an adenocarcinoma of the prostate, a squmous cell carcinoma of the esophagus, an adenocarcinoma of the esophagus, an adenocarcinoma of the breast, a ductal carcinoma of the breast, an adenocarcinoma of the pancreas, an adenocarcinoma of the ovary and an adenocarcinoma of the uterus, and not to a non-neoplastic cell.

90. (new) A cell expressing a polypeptide comprising a sequence substantially identical to an amino acid sequence selected from the group consisting of SEQ ID NO:1,

SEQ ID NO:3 and a combination thereof.

- 91. (new) The cell expressing a polypeptide according to Claim 90, wherein said cell is a hybridoma.
- 92. (new) A method for generating a hybridoma cell expressing a polypeptide comprising a sequence substantially identical to an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof, said method comprising the steps of:

contacting lymphocytes with a heteromyeloma cell line under conditions resulting in a fusion of a lymphocyte with a heteromyeloma cell, said fusion resulting in a hybridoma;

determining whether said hybridoma produces a polypeptide that inhibits proliferation in a neoplastic cell to which it binds, but does not inhibit proliferation in a non-neoplastic cell; and,

determining whether said hybridoma produces a polypeptide that specifically binds to BXPC-3 (ATCC Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F (DSMZ Accession No. ACC 21), COLO-699 (DSMZ Accession No. ACC 196) and LOU-NH91 (DSMZ Accession No. ACC 393) cells and not to non-neoplastic cells.

93. (new) A method for generating a hybridoma cell expressing a polypeptide comprising a sequence substantially identical to an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof, said

method comprising the steps of:

contacting lymphocytes with a heteromyeloma cell line under conditions resulting in a fusion of a lymphocyte with a heteromyeloma cell, said fusion resulting in a hydridoma;

determining whether said hybridoma produces a polypeptide that induces intracellular accumulation of lipids in a neoplastic cell to which it binds, but does not induce intracellular accumulation of lipids in a non-neoplastic cell;

determining whether said hybridoma produces a polypeptide that specifically binds to BXPC-3 (ATCC Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F to which it binds, but does not induce intracellular accumulation of lipids in a non-neoplastic cell; and,

determining whether said hybridoma produces a polypeptide that specifically binds to BXPC-3 (ATCC Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F (DSMZ Accession No. ACC 21), COLO-699 (DSMZ Accession No. ACC 196) and LOU-NH91 (DSMZ Accession No. ACC 393) cells and not to non-neoplastic cells.

94. (new) A method for generating a hybridoma cell expressing a polypeptide comprising a sequence substantially identical to an amino acid sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and a combination thereof, said method comprising the steps of:

contacting lymphocytes with a heteromyeloma cell line under conditions resulting in a fusion of a lymphocyte with a heteromyeloma cell, said fusion resulting in a

hydridoma;

determining whether said hydridoma produces a polypeptide that induces apoptosis of a neoplastic cell to which it binds, but does not induce apoptosis of a non-neoplastic cell; and,

determining whether said hydridoma produces a polypeptide that specifically binds to BXPC-3 (ATCC Accession No. CRL-1687), 23132/87 (DSMZ Accession No. ACC 201), COLO-206F (DSMZ Accession No. ACC 21), COLO-699 (DSMZ Accession No. ACC 196) and LOU-NH91 (DSMZ Accession No. ACC 393) cells and not to non-neoplastic cells.

- 95. (new) An isolated nucleic acid molecule comprising the sequence of SEQ ID NO:2 or SEQ ID NO:4.
- 96. (new) The isolated nucleic acid molecule according to Claim 95, wherein said nucleic acid molecule is comprised within a vector.
- 97. (new) The isolated nucleic acid molecule according to Claim 96, wherein said vector is comprised within a cell.